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	TATEMENT	Applicant:						
	APPLICATION	Jeffrey M. Sieracki; Richard B. North						
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		Examiner Name: Unknown						
		U.S. PATE	NT DOCUMENTS		CL/	SUB		
Examiner Initial	Document Number	Issue/Document Publication Date	Name		Filian Date If			
PN	5,938,690	08/17/99	Law et al.		607	<del></del>		
	6,272,366	08/07/01	Vining		1	407		
	6,308,102	10/23/01	Sieracki et al.		1	10		
	6,383,135	05/07/02	Chikovani et al.		607/59			
	2002/0065589	04/03/03	Giacchetti		600/300			
PN	2003/0146942	08/07/03	Helgason et al.		701/22			
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Examiner	Document Number	FOREIGN PAT	TENT DOCUMENTS Country			1-4*-		
Initial		Date	Country	y	Trans Yes	No No		
OTHER D			tem, Page(s), Vol/Issue N					
PN	Fowler, K.R., "Ne	urological Stimula	ation System", Proceed	dings AAMI 21	st Annual			
	Meeting, Apr. 12-	10, p. 27, 1980.			· · · · · · · · · · · · · · · · · · ·			
1 1	stimulators !! Descri	nn, K.B.: "Patient	-interactive PC interfa	ce to implanted	, multicha	nnel		
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<del></del>	Biology, p. 380, 19							
1	implented neurals	er, K.K., "Comput	er-controlled, patient-	interactive, mul	tichannel,	•		
<del>  </del>	North P. D. Nicol	B L Communitors,"	Applied Neurophysic	ology, 50:39-41,	1987.			
1 1	multichannel impl	u, D.J., Szymansk Ientod noveologica	i, R.E., Fowler, K.R.,	"Computer-con	brolled,			
1	(Suppl.), 5:S83, 19	iantea nemologica	d stimulation system:	Clinical assessn	nent," Pai	n .		
			on autimi1 1					
	Internat Conf IEE	u, R.B., Comput	er-optimized neurolog	ical stimulation	," Proc. A	unn.		
	Fowler K P. North	b D D "Commut	edicine and Biology S	oc., 13:1692-16	93, 1991.	<u> </u>		
] (	Digest, 12:192-197	, K.B., Compute 7 1001	er-optimized neurostir	nulation," APL	Technica	1		
<del>                                     </del>			1-1. 6 1					
PN	'multi-channel' de	opinai cord stim	ulation for chronic int	ractable pain: su	periority	of		
EXAMINE	D muni-channel de	vices, rain, v44,	pp. 119-130, 1991.					
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		iding Authors, Title of I				
	North, R.B., F 'pain drawing stimulation sy North, R.B., " Magnetic Stir	stem," (Abstract) Actowler, K.R., Nigrin, Prological stimulation ournal of Neurosurge owler, K.R., Nigrin, Panalysis by compute stem," Pain, 50:51-5 Spinal Cord Stimulation of the Brain The Role of Spinal Cord Stimulation of the Brain Property of the Spinal Cord Spinal	ery, 76:967-972, 1 D.A., Szymanski, er-controlled, pati 7, 1992. tion for Chronic In and Spinal Cord, Cord Stimulation i	992. R.E., Piantadosi, ent-interactive ner ntractable Pain," Fpp. 289-301, 199 in Contemporary l	S., "Auton urological Electrical a 3. Pain Mana	nated nd gement,
	A TOO Tourenal	TALL A NULL PROFE		- n m	aninai coto	
<del></del>	North, R. B.,	vol. 2, No. 2, pp. 91 Kidd, D. H., Zahura or chronic, intractabl	k, M., James, C. S	e over two decade	s," Neuros	urgery,
	1 404 705	1004			WIEU DEM	0105.000
	North, R.B.,	of children, Made 1993.  Fowler, K.R., "Patie system" (abstract), St	nt-interactive, inc	actional Neurosur	gery, 62:30	)9-315,
\	1994.	-		on the neurosurgi	cal manag	ement of
<u> </u>	North, R. B.	, Levy, R. M., "Cons	sensus conterence	OH MO WOM CT. 10		
PN	pain," Neur	osurgery, 34:756-761	Date Consid	lored		
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OTHER D	OCUMENTS (Incli	iding Authors, The or	TO Alverez R	Cutchis, P.N., "P	atient-inte	(4).125_
	North R.B. S	uding Authors, Title of ieracki, J.N., Fowler, r-controlled neurolog	K.K., Aivaice, D.,	stem," Neuromod	iulation, I	(7).103
Du l	microprocesso	r-controlled neurolog	gical sumulation sy			
PN	102 1008	-	D.D. Morth	R. B., "Automate	ed, patient	; <b>-</b>
L	193, 1930.	A., Taylor, R. S., Brig	ham, D. D., North	minimization anal	lysis,"	
1	Knaiessi, A. A	nal cord stimulator a	adjustment: A cost-	I A A A A A A A A A A A A A A A A A A A		
1 1	interactive spi	53:501-502, 2003.		i I M. Piantado	si, S. A., I	Daly, M.
L	Neurosurgery	inal cord stimulator a , 53:501-502, 2003. Calkins, S. K., Camp , Barolat, G., "Auton	pbell, D. S., Sieraci	notive spinal cord	stimulato	r
	North, K. B.,	Barolat, G., "Auton	nated, patient-inter	vrgery 52:572-58	0, 2003.	
1 1	J., Dey, F. D.	, pure set contr	olled trial," Neuros	urgery server	ble Neuro	stimulator
	adjustment:	, Barolat, G., "Auton A randomized, contr Application Serial No g with Battery Longo B. Fowler, Jeffrey M	umber 10/696,501,	1-4 October 29. 2	003, Rich	ard B.
	U.S. Patent	a with Battery Long	evity Indication", 1	IEU October 27, -	-	
	Programmin	B Fowler Jeffrey M	I. Sieracki, David L	. Brigham.	imulation	Therapy
\ <u>\</u>	North, Kim	A - lication Serial N	umber 10/696,781,	entitied Routes	Sieracki.	
	U.S. Patent	Application contact	2003, Richard B.	North, Jeilley 142	Program	ming of
1.	Manipulation	n', filed October 25	Jumber 10/696,725	entitled Fallsall	orth. Jeffi	ev M.
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Patent and Trademark Office, U.S. Department of Commerce (Also form PTO-1449)

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		U.S. PATE	NT DOCUMENTS		CLI	SUB	
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PN	5,778,882	07/14/1998	Raymond et al.		600	1513	
PN	6,132,218	10/17/2000	Benja-Athon		600	1400	
		FOREIGN PA	TENT DOCUMENTS				
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	WO 01/93952	12/13/2001	PCT		103		
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Page 1 of 4 Docket Number: Application Number: 10/696,491 1023-228US01 FORMATION DISCLOSURE Applicant: **STATEMENT** Jeffrey M. Sieracki; Richard B. North IN AN APPLICATION Filing Date: Group Art Unit: (Use several sheets if necessary) October 29, 2003 3736 Examiner Name: Unknown U.S. PATENT DOCUMENTS Examiner **Document Number** Issue/Document Name Appropriate Initial **Publication Date** 5,938,690 08/17/99 Law et al. רת 6,272,366 Vining 08/07/01 Sieracki et al. 6,308,102 10/23/01 6,383,135 05/07/02 Chikovani et al. 2002/0065589 04/03/03 Giacchetti 2003/0146942 08/07/03 Helgason et al. FOREIGN PATENT DOCUMENTS Examiner Translation **Document Number** Publication Country Initial Date Yes OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication) Fowler, K.R., "Neurological Stimulation System", Proceedings AAMI 21st Annual PN Meeting, Apr. 12-16, p. 27, 1986. Fowler, K. R., North, R.B.: "Patient-interactive PC interface to implanted, multichannel stimulators," Proceedings of 39th Annual Conference on Engineering in Medicine and Biology, p. 380, 1986. North, R.B., Fowler, K.R., "Computer-controlled, patient-interactive, multichannel, implanted neurological stimulators," Applied Neurophysiology, 50:39-41, 1987. North, R.B., Nigrin, D.J., Szymanski, R.E., Fowler, K.R., "Computer-controlled, multichannel, implanted neurological stimulation system: Clinical assessment," Pain (Suppl.), 5:S83, 1990. Fowler, K.R., North, R.B., "Computer-optimized neurological stimulation," Proc. Ann. Internat. Conf. IEEE Engineering Medicine and Biology Soc., 13:1692-1693, 1991. Fowler, K.R., North, R.B., "Computer-optimized neurostimulation," APL Technical Digest, 12:192-197, 1991. North, R.B., et al., "Spinal cord stimulation for chronic intractable pain: superiority of PNI 'multi-channel' devices," Pain, V44, pp. 119-130, 1991. **Date Considered EXAMINER** .P. Ngezer 12/12/06 \*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820 (Also form PTO-1449)

Form 1449*		Docket Number: 1023-228US01		Application Number: 10/696,491			
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OTHER D	OCUMENTS (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue N	lo., Publisher, Plac	ce of Public	cation)	
PN		· · · · -	er-controlled, patient-		ological		
1			Neurochir, 117:90, 1		À		
. }			D.A., Szymanski, R.E. system: Clinical effica				
			y, 76.967-972, 1992.	icy in spinar core	u stiiiiuia	101	
	- <del></del>		D.A., Szymanski, R.E.	, Piantadosi, S.,	"Automa	ted	
	'pain drawing' and	alysis by computer	r-controlled, patient-in	nteractive neurol	logical		
	stimulation system						
			on for Chronic Intract		trical and		
	<del></del>		nd Spinal Cord, pp. 2		14	4 **	
	1 ' '	•	ord Stimulation in Cor	itemporary Pain	Manager	nent,"	
	APS Journal, vol.		M., James, C. S., Lon	g D M "Sning	al cord		
			pain: Experience over			erv.	
	32:384-395, 1993.	•				,	
	<del></del>		interactive, microproc	cessor-controlled	l neurolog	gical	
	stimulation system	n" (abstract), Stere	otactic and Functiona	l Neurosurgery,	62:309-3	15,	
	1994.		_				
PN		•	sus conference on the	neurosurgical m	anageme	nt of	
	pain," Neurosurge	ry, 34:756-761, 19					
EXAMINE			Date Considered				
	r	. Nguya	7	11406			
*Examiner: Ini	itial if reference considered,	whether or not citation is	in conformance with MPEP 6	09; Draw line through	citation if no	t in	
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OTHER D	OCUMENTS (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue I	No., Publisher, Plac	e of Public	cation)
0.1	•		., Piantadosi, S., "A p			tudy of
PU	1 *	_	ration for the failed be	~	lrom,"	
	<del></del>		rgery, 62:267-272, 19			
		_	nulation For Chronic	Pain," Functions	al Neuros	urgery,
	vol. 6, No. 1, pp. 1		rd stimulation for chro	nic intractable r	ain " Sni	nal
•			nstadt, Steinkopff, 19	_	diii, Opi	1141
			Piantadosi,S., "Artific		rks: App	lication
			n nervous system," (a			
1 1	Functional Neuros		• • •	,		
	<del></del>		, R. L., Edwin, D., "I	Prognostic value	of	
ŀ	•		stimulation patients:	_		
,	Neurosurgery, 39:					
	North, R. B., Kido	l, D. H., Zahurak,	M., Piantadosi, S., "S	pecificity of diag	gnostic ne	erve
	blocks: A prospec	tive, randomized s	study of sciatica due to	o lumbosacral sp	ine disea	se,"
	Pain, 65:77-85, 19					
	North, R.B., McN	amee, P., Wu,L., I	Piantadosi, S., "Artific	cial neural netwo	rks: App	lication
		lation of the huma	n nervous system," N	eurosurgical Foo	cus, 2(1:1	):1-5,
<del>                                     </del>	1997.	Computer Assiste	ed and Patient Interact	ive Programmin	a of Dual	<u> </u>
PN	1 .	•	the Treatment of Chr	_	_	
	vol. 1, No. 1, pp. 3			omo i am, i teul	omouna	,
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Patent and Trademark Office, U.S. Department of Commerce (Also form PTO-1449)

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OTHER DO	OCUMENTS (Includin	g Authors, Title of I	tem, Page(s), Vol/Issue N	lo., Publisher, Plac	ce of Public	cation)	
011	1		K.R., Alvarez, B., Cu	•		-	
PU		ntrolled neurolog	ical stimulation syster	n," Neuromodul	ation, 1(4	·):185-	
<del>     </del>	193, 1998.						
		• •	am, D. D., North, R.		-		
]			justment: A cost-mini	mization analys	ıs,"		
<del></del>	Neurosurgery, 53:		all D.C. Ciamadai I	M. Diantadani	C A Del	las NA	
]			ell, D. S., Sieracki, J. ted, patient-interactive			ıy, ıvı.	
1			ed trial," Neurosurger				
			ber 10/696,501, entitle			nulator	
			ty Indication", filed O	•			
			ieracki, David D. Brig		, 10.011420	٥.	
			ber 10/696,781, entitle		ation The	гару	
			03, Richard B. North,				
	U.S. Patent Applic	cation Serial Num	ber 10/696,725, entitle	ed "Failsafe Pro	gramming	g of .	
1 /	Implantable Medic	cal Devices", filed	October 29, 2003, Ri	chard B. North,	Jeffrey M	1.	
	Sieracki.						
1			ber 10/696,494, entitle		•		
			ming", filed October 2	29, 2003, Richar	d B. Nort	h, Kim	
	R. Fowler, Jeffrey						
PN			ber 10/696,778, entitle				
1 7.0	Jeffrey M. Sierack		des", filed October 29	, 2003, Richard	B. North,		
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Patent and Trademark Office, U.S. Department of Commerce

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Form 1449*		Docket Number:		Application Number:				
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PU	6,609,032 B1	08/19/2003	Woods et al.		607	146		
PNI	6,659,968 B1	12/09/2003	McClure		600/			
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